

ABSTRACT

An image pickup system according to the present invention includes an extracting unit for extracting a block
5 area with a predetermined size from a signal of an image pickup device, a transforming unit for transforming the signal in the extracted block area into a signal in a frequency space, an estimating unit for estimating the amount of noises of a frequency component except for a zero-
10 order component based on the zero-order component in the transformed signal in the frequency space, a noise reducing unit for reducing noises of the frequency component except for the zero-order component based on the estimated amount of noises, and a compressing unit for compressing the zero-
15 order component and the frequency component except for the zero-order component from which the noises are reduced.